NC/QC/W-06/2018-19/HN-C1

Date: 13-03-2019

## 1. TEST REPORT ON CEMENT:

**Sub**: Testing of 53 Grade Cement Sample (IS 12269-1987).

{Project*: Improvements to Roads, Drains and Culverts at Varadarajaswamy Layout, Varadaraj anagara, Muniswamappa, Ramachandrapura, Kuvempunagara, Singapura Village, Gangammanagudi Surrounding Balaji Layout, Raghavendra Colony and Teachers Layout in Ward No.11.}

**Ref.**: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Gopi Reddy.K, Bangalore.

### PHYSICAL TESTS ON CEMENT

Brand : ULTRATECH
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

| SL No | Name of Test | Test Results | Requirements as per IS 8112-1989 |
|---|---|---|---|
| 1 | Initial setting time | 161 min | Shall not be less than 30 min |
| 2 | Final setting time | 275min | Shall not be more than 600 min |
| 3 | Fineness (by dry sieving on IS 90 micron sieve) | 1.76 % | Not to exceed 10.0% |
| 4 | Soundness test(by Le-Chatelier's method) | 2.09 mm | Shall not be more than 10 mm |
| 5 | Compressive strength a) 3 days (average of three results | 28.12 N/Sq mm | Shall not be less than 27 N/Sqmm |

KIRAN. R
M.E, (Civil-Engg)



For Newzen Consultants Bangalore

Asst. Executive Engineer
Project Division

Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91-8792620231, 080 23240187
EMAIL:newzen576@gmail.com

NC/QC/W-06/2018-19/HN-FA1 Date: 13-03-2019

## 1. TESTING OF FINE AGGREGATES :

**Sub**: Testing of Fine Aggregates.

{Project*: Improvements to Roads, Drains and Culverts at Varadarajaswamy Layout, Varadaraj anagara, Muniswamappa, Ramachandrapura, Kuvempunagara, Singapura Village, Gangammanagudi Surrounding Balaji Layout, Raghavendra Colony and Teachers Layout in Ward No.11.}

**Ref.**: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Gopi Reddy.K, Bangalore.

**TABLE - 1.1 : SIEVE ANALYSIS :**

| IS Sieve Size,mm | Percentage Passing | Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing | | | Remarks |
|---|---|---|---|---|---|
| | | Zone-I | Zone-II | Zone -II | |
| 04.75 | **98.15** | 90-100 | 90-100 | 90-100 | The Sample Conforms to Grading **Zone-II** |
| 02.36 | **86.30** | 60-95 | 75-100 | 85-100 | |
| 01.18 | **77.60** | 30-70 | 55-90 | 75-100 | |
| 600. mic | **36.90** | 15.34 | 35-59 | 60-79 | |
| 300.mic | **17.25** | 5-20 | 8-30 | 12-40 | |
| 150.mic | **6.40** | 0-10 | 0-10 | 0-10 | |

**TABLE 1.2 ;**

| Sl No | Test Conducted | Sample | Results | **Requirements** as Per IS. Specification IS :383-1970 (Reaffirmed 2002) |
|---|---|---|---|---|
| 1 | Bulking of Sand | 001 | **17.58 %** | ----- |
| 2 | Silt Content | ---- | **0.59%** | Not more than 8% |
| 3 | Specific Gravity | ---- | **2.61** | ------- |

KIRAN. R
M.E, (Civil-Engg)



For Newzen Consultants Bangalore

Proprietor

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187

NC/QC/W-06/2018-19/HN-CB1 Date: 25-03-2019

## 1. TEST REPORT ON CEMENT CONCRETE CUBES:

**Sub**: Testing of Concrete Cubes (for 07days Compressive Strength).

{Project*: Improvements to Roads, Drains and Culverts at Varadarajaswamy Layout, Varadaraj anagara, Muniswamappa, Ramachandrapura, Kuvempunagara, Singapura Village, Gangammanagudi Surrounding Balaji Layout, Raghavendra Colony and Teachers Layout in Ward No.11.}

**Ref.**: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Gopi Reddy.K, Bangalore.

### RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

### CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : $M_{15}$

**TABLE 1.1:**

| Sl No | Location/ Identification* | Date of Casting* | Date of Testing | Age in Days | C/S Area in $mm^2$ | Maximum Load in K.N | Compressive Strength ($N/mm^2$) | Avg. Value |
|---|---|---|---|---|---|---|---|---|
| 1 | 001 | 18-03-19 | 25-03-19 | 07 | 22500 | 300 | 13.33 | **13.63** |
| | 002 | " | " | " | " | 315 | 14.00 | |
| | 003 | " | " | " | " | 305 | 13.56 | |

K.R
KIRAN. R
M.E, (Civil-Engg)



For Newzen Consultants Bangalore

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Proprietor

NEWZEN CONSULTANT BANGALORE, #13,19TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

NC/QC/W-06/2018-19/HN-CB2 **Date: 27-03-2019**

## 1. TEST REPORT ON CEMENT CONCRETE CUBES:

**Sub**: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to Roads, Drains and Culverts at Varadarajaswamy Layout, Varadaraj anagara, Muniswamappa, Ramachandrapura, Kuvempunagara, Singapura Village, Gangammanagudi Surrounding Balaji Layout, Raghavendra Colony and Teachers Layout in Ward No.11.}
**Ref.**: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Gopi Reddy.K, Bangalore.

### RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

### CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : $M_{15}$

**TABLE 1.1:**

| Sl No | Location/ Identification* | Date of Casting* | Date of Testing | Age in Days | C/S Area in $mm^2$ | Maximum Load in K.N | Compressive Strength ($N/mm^2$) | Avg. Value |
|---|---|---|---|---|---|---|---|---|
| 1 | 001 | 20-03-19 | 27-03-19 | 07 | 22500 | 310 | 13.78 | **13.56** |
| | 002 | " | " | " | " | 305 | 13.56 | |
| | 003 | " | " | " | " | 300 | 13.33 | |

K. R
KIRAN. R
M.E, (Civil-Engg)



For Newzen Consultants Bangalore

Proprietor

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187

NC/QC/W-06/2018-19/HN-CB1a

Date: 15-04-2019

## 1. TEST REPORT ON CEMENT CONCRETE CUBES:

**Sub**: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: Improvements to Roads, Drains and Culverts at Varadarajaswamy Layout, Varadaraj anagara, Muniswamappa, Ramachandrapura, Kuvempunagara, Singapura Village, Gangammanagudi Surrounding Balaji Layout, Raghavendra Colony and Teachers Layout in Ward No.11.}

**Ref.**: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Gopi Reddy.K, Bangalore.

### RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

### CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : $M_{15}$

**TABLE 1.1:**

| Sl No | Location/ Identification* | Date of Casting* | Date of Testing | Age in Days | C/S Area in $mm^2$ | Maximum Load in K.N | Compressive Strength ($N/mm^2$) | Avg. Value |
|---|---|---|---|---|---|---|---|---|
| 1 | 001 | 18-03-19 | 15-04-19 | 28 | 22500 | 405 | 18.00 | **17.56** |
| | 002 | " | " | " | " | 385 | 17.11 | |
| | 003 | " | " | " | " | 395 | 17.56 | |

KIRAN. R
M.E, (Civil-Engg)



For Newzen Consultants Bangalore

Proprietor

Asst. Executive Engineer,
Project Division
Yelahanka Zone
BBMP, Bangalore

NEWZEN CONSULTANT BANGALORE, #13,18TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

NC/QC/W-06/2018-19/HN-CB2a

Date: 17-04-2019

## 1. TEST REPORT ON CEMENT CONCRETE CUBES:

**Sub**: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: Improvements to Roads, Drains and Culverts at Varadarajaswamy Layout, Varadaraj anagara, Muniswamappa, Ramachandrapura, Kuvempunagara, Singapura Village, Gangammanagudi Surrounding Balaji Layout, Raghavendra Colony and Teachers Layout in Ward No.11.}

**Ref.**: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Gopi Reddy.K, Bangalore.

### RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

### CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : $M_{15}$

**TABLE 1.1:**

| Sl No | Location/ Identification* | Date of Casting* | Date of Testing | Age in Days | C/S Area in $mm^2$ | Maximum Load in K.N | Compressive Strength ($N/mm^2$) | Avg. Value |
|---|---|---|---|---|---|---|---|---|
| 1 | 001 | 20-03-19 | 17-04-19 | 28 | 22500 | 400 | 17.78 | **17.48** |
| | 002 | " | " | " | " | 385 | 17.11 | |
| | 003 | " | " | " | " | 395 | 17.56 | |

KIRAN. R
M.E, (Civil-Engg)



For Newzen Consultants Bangalore

Proprietor

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187

NC/QC/W-06/2018-19/HN -SB1 Date: 20-03-2019

**1. TEST REPORT ON PRE –CAST SOLID BLOCKS:**

**Sub:** Testing of Pre-Cast Solid Block- Compressive strength.

{Project*: Improvements to Roads, Drains and Culverts at Varadarajaswamy Layout, Varadaraj anagara, Muniswamappa, Ramachandrapura, Kuvempunagara, Singapura Village, Gangammanagudi Surrounding Balaji Layout, Raghavendra Colony and Teachers Layout in Ward No.11.}

**Ref.**: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Gopi Reddy.K, Bangalore.

**RESULTS OF COMPRESSIVE STRENGTH ON PRE CAST( Solid Blocks)**

**BLOCK SPECIMENS**

**TABLE 1. 1:**

| Sl No. | Dimensions of Specimen mm | Details | Cross Sectional Area $mm^2$ | Maximum Load in KN | Compressive Strength $N/mm^2$ | **Average Compressive Strength $N/mm^2$** |
|---|---|---|---|---|---|---|
| 1 | 400 X 200 X 200 | **Solid** | 80000 | 350 | 4.37 | **4.49** |
| 2 | ,, | ,, | 80000 | 370 | 4.62 | |
| 3 | ,, | ,, | 80000 | 360 | 4.50 | |

**Page No. 1/1,**

KIRAN. R
M.E, (Civil-Engg)

For Newzen Consultants Bangalore

Proprietor

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

NC/QC/W-06/2018-19/HN –SB2 **Date: 23-03-2019**

**1. TEST REPORT ON PRE –CAST SOLID BLOCKS:**

**Sub:** Testing of Pre-Cast Solid Block- Compressive strength.

{Project*: Improvements to Roads, Drains and Culverts at Varadarajaswamy Layout, Varadaraj anagara, Muniswamappa, Ramachandrapura, Kuvempunagara, Singapura Village, Gangammanagudi Surrounding Balaji Layout, Raghavendra Colony and Teachers Layout in Ward No.11.}

**Ref.**: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Gopi Reddy.K, Bangalore.

**RESULTS OF COMPRESSIVE STRENGTH ON PRE CAST( Solid Blocks)**

**BLOCK SPECIMENS**

**TABLE 1. 1:**

| Sl No. | Dimensions of Specimen mm | Details | Cross Sectional Area $mm^2$ | Maximum Load in KN | Compressive Strength $N/mm^2$ | **Average Compressive Strength $N/mm^2$** |
|---|---|---|---|---|---|---|
| 1 | 400 X 200 X 200 | **Solid** | 80000 | 365 | 4.56 | **4.41** |
| 2 | ,, | ,, | 80000 | 355 | 4.43 | |
| 3 | ,, | ,, | 80000 | 340 | 4.25 | |



KIRAN. R
M.E, (Civil-Engg)

For Newzen Consultants Bangalore

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

NC/QC/W-06/2018-19/HN –SB3 Date: 27-03-2019

## 1. TEST REPORT ON PRE –CAST SOLID BLOCKS:

**Sub:** Testing of Pre-Cast Solid Block- Compressive strength.
{Project*: Improvements to Roads, Drains and Culverts at Varadarajaswamy Layout, Varadaraj anagara, Muniswamappa, Ramachandrapura, Kuvempunagara, Singapura Village, Gangammanagudi Surrounding Balaji Layout, Raghavendra Colony and Teachers Layout in Ward No.11.}
**Ref.**: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Gopi Reddy.K, Bangalore.

## RESULTS OF COMPRESSIVE STRENGTH ON PRE CAST( Solid Blocks)

## BLOCK SPECIMENS

**TABLE 1. 1:**

| Sl No. | Dimensions of Specimen mm | Details | Cross Sectional Area $mm^2$ | Maximum Load in KN | Compressive Strength $N/mm^2$ | **Average Compressive Strength $N/mm^2$** |
|---|---|---|---|---|---|---|
| 1 | 400 X 200 X 200 | **Solid** | 80000 | 370 | 4.62 | **4.53** |
| 2 | ,, | ,, | 80000 | 365 | 4.56 | |
| 3 | ,, | ,, | 80000 | 355 | 4.43 | |

Page No. 1/1,

KIRAN. R
M.E, (Civil-Engg)

For Newzen Consultants Bangalore

Proprietor

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

NC/QC/W-06/2018-19/HN –SB4 Date: 30-03-2019

## 1. TEST REPORT ON PRE –CAST SOLID BLOCKS:

**Sub:** Testing of Pre-Cast Solid Block- Compressive strength.

{Project*: Improvements to Roads, Drains and Culverts at Varadarajaswamy Layout, Varadaraj anagara, Muniswamappa, Ramachandrapura, Kuvempunagara, Singapura Village, Gangammanagudi Surrounding Balaji Layout, Raghavendra Colony and Teachers Layout in Ward No.11.}

**Ref.**: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Gopi Reddy.K, Bangalore.

## RESULTS OF COMPRESSIVE STRENGTH ON PRE CAST( Solid Blocks)

## BLOCK SPECIMENS

**TABLE 1. 1:**

| Sl No. | Dimensions of Specimen **mm** | Details | Cross Sectional Area **$mm^2$** | Maximum Load in **KN** | Compressive Strength **$N/mm^2$** | **Average Compressive Strength $N/mm^2$** |
|---|---|---|---|---|---|---|
| 1 | 400 X 200 X 200 | **Solid** | 80000 | 345 | 4.31 | **4.50** |
| 2 | ,, | ,, | 80000 | 360 | 4.50 | |
| 3 | ,, | ,, | 80000 | 375 | 4.69 | |

Page No. 1/1,

KIRAN. R
M.E, (Civil-Engg)

For Newzen Consultants Bangalore

Asst. Executive Engineer
Project Division

Proprietor

NC/QC/W-06/2018-19/HN-CB3 **Date: 09-04-2019**

## 1. TEST REPORT ON CEMENT CONCRETE CUBES:

**Sub**: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to Roads, Drains and Culverts at Varadarajaswamy Layout, Varadaraj anagara, Muniswamappa, Ramachandrapura, Kuvempunagara, Singapura Village, Gangammanagudi Surrounding Balaji Layout, Raghavendra Colony and Teachers Layout in Ward No.11.}
**Ref.**: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Gopi Reddy.K, Bangalore.

### RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

### CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : $M_{15}$

**TABLE 1.1:**

| Sl No | Location/ Identification* | Date of Casting* | Date of Testing | Age in Days | C/S Area in $mm^2$ | Maximum Load in K.N | Compressive Strength (N/ $mm^2$) | Avg. Value |
|---|---|---|---|---|---|---|---|---|
| 1 | 001 | 02-04-19 | 09-04-19 | 07 | 22500 | 295 | 13.11 | **13.33** |
| | 002 | " | " | " | " | 305 | 13.56 | |
| | 003 | " | " | " | " | 300 | 13.33 | |

KIRAN. R
M.E, (Civil-Engg



For Newzen Consultants Bangalore

Asst. Executive Engineer,
Project Division

Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056, CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

NC/QC/W-06/2018-19/HN-CB4 **Date: 12-04-2019**

## 1. TEST REPORT ON CEMENT CONCRETE CUBES:

**Sub**: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to Roads, Drains and Culverts at Varadarajaswamy Layout, Varadaraj anagara, Muniswamappa, Ramachandrapura, Kuvempunagara, Singapura Village, Gangammanagudi Surrounding Balaji Layout, Raghavendra Colony and Teachers Layout in Ward No.11.}
**Ref.**: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Gopi Reddy.K, Bangalore.

### RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

### CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : $M_{15}$

**TABLE 1.1:**

| Sl No | Location/ Identification* | Date of Casting* | Date of Testing | Age in Days | C/S Area in $mm^2$ | Maximum Load in K.N | Compressive Strength ($N/mm^2$) | Avg. Value |
|---|---|---|---|---|---|---|---|---|
| 1 | 001 | 05-04-19 | 12-04-19 | 07 | 22500 | 290 | 12.89 | **13.26** |
| | 002 | " | " | " | " | 305 | 13.56 | |
| | 003 | " | " | " | " | 300 | 13.33 | |

KIRAN. R
M.E, (Civil-Engg)



For Newzen Consultants Bangalore

Proprietor

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

NC/QC/W-06/2018-19/HN-CB3a

Date: 30-04-2019

## 1. TEST REPORT ON CEMENT CONCRETE CUBES:

**Sub**: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: Improvements to Roads, Drains and Culverts at Varadarajaswamy Layout, Varadaraj anagara, Muniswamappa, Ramachandrapura, Kuvempunagara, Singapura Village, Gangammanagudi Surrounding Balaji Layout, Raghavendra Colony and Teachers Layout in Ward No.11.}

**Ref.**: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Gopi Reddy.K, Bangalore.

### RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

### CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : $M_{15}$

**TABLE 1.1:**

| Sl No | Location/ Identification* | Date of Casting* | Date of Testing | Age in Days | C/S Area in $mm^2$ | Maximum Load in K.N | Compressive Strength ($N/mm^2$) | Avg. Value |
|---|---|---|---|---|---|---|---|---|
| 1 | 001 | 02-04-19 | 30-04-19 | 28 | 22500 | 390 | 17.33 | **17.04** |
| | 002 | " | " | " | " | 385 | 17.11 | |
| | 003 | " | " | " | " | 375 | 16.67 | |

KIRAN. R
M.E, (Civil-Engg)



Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

For Newzen Consultants Bangalore

Proprietor

NEWZEN CONSULTANT BANGALORE, #13, 10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

NC/QC/W-06/2018-19/HN-CB4a **Date: 03-05-2019**

## 1. TEST REPORT ON CEMENT CONCRETE CUBES:

**Sub**: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements to Roads, Drains and Culverts at Varadarajaswamy Layout, Varadaraj anagara, Muniswamappa, Ramachandrapura, Kuvempunagara, Singapura Village, Gangammanagudi Surrounding Balaji Layout, Raghavendra Colony and Teachers Layout in Ward No.11.}
**Ref.**: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Gopi Reddy.K, Bangalore.

### RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : $M_{15}$

**TABLE 1.1:**

| Sl No | Location/ Identification* | Date of Casting* | Date of Testing | Age in Days | C/S Area in $mm^2$ | Maximum Load in K.N | Compressive Strength ($N/mm^2$) | Avg. Value |
|---|---|---|---|---|---|---|---|---|
| 1 | 001 | 05-04-19 | 03-05-19 | 28 | 22500 | 390 | 17.33 | **17.19** |
| | 002 | " | " | " | " | 375 | 16.67 | |
| | 003 | " | " | " | " | 395 | 17.56 | |

KIRAN. R
M.E, (Civil-Engg)



For Newzen Consultants Bangalore

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

NC/QC/W-06/2018-19/HN -K1 Date: 05-04-2019

# TEST REPORT

**Sub**: Testing of Pre-cast Material-Kerb Stones.
{Project*: Improvements to Roads, Drains and Culverts at Varadarajaswamy Layout, Varadaraj anagara, Muniswamappa, Ramachandrapura, Kuvempunagara, Singapura Village, Gangammanagudi Surrounding Balaji Layout, Raghavendra Colony and Teachers Layout in Ward No.11.}
**Ref.**: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Gopi Reddy.K, Bangalore.

## 1. PHYSICAL TESTS ON KERB STONES :

| Sl No. | Identification | Flexural strength, fcr in N/sqmm | Characteristic Compressive Strength, fck in N/sqmm | Avg. Characteristic. Compressive Strength fck in N/sqmm | Remarks |
|---|---|---|---|---|---|
| 1 | 001 | 3.38 | 23.40 | **23.15** | As per Cl. 6.2.2 of IS 456- 2000, fcr=0.7√ fck |
| 2 | 002 | 3.35 | 22.90 | | |
| 3 | 003 | 3.37 | 23.15 | | |

## 2. WATER ABSORPTION TEST

| Sl No | Identification | Water absorption % | Average value % |
|---|---|---|---|
| 1 | 001 | 4.35 | **4..44** |
| 2 | 002 | 4.41 | |
| 3 | 003 | 4.58 | |

KIRAN. R
M.E, (Civil-Engg)

For Newzen Consultants Bangalore

Proprietor



Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

NEWZEN CONSULTANT BANGALORE, #13,16TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com